

**FEB 29 2008**

**UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE**

**08.00820**

February 29, 2008

Dennis R. Downs, Director  
Utah Division of Solid and Hazardous Waste  
288 North 1460 West  
Salt Lake City, Utah 84114-4880  
Attention: Rob Powers

Re: 2007 Solid Waste Incinerator Annual Reports, Davis Energy Recovery Facility

Dear Mr. Downs:

Please find the following documents transmitted with this letter to satisfy the annual reporting requirements of the Utah Administration Code R315-302-2(4) for the Davis Energy Recovery Facility which is owned and operated by Wasatch Integrated Waste Management District.

- Calendar year 2007 Solid Waste Incinerator Annual Report (state form)
- Report of training programs and procedures completed by facility personnel during 2007
- Report of residue characterization during 2007
- Financial Assurance documentation required by UACR315-309

Please do not hesitate to contact me if you have any questions regarding these submissions.

Sincerely,

**Wasatch Integrated Waste Management District**



Nathan Rich, P.E.  
Executive Director

attachments

Mail to:  
Dennis R. Downs, Director  
Division of Solid and Hazardous Waste  
P.O. Box 144880  
Salt Lake City, Utah 84114-4880

www.hazardouswaste.utah.gov

## SOLID WASTE INCINERATOR ANNUAL REPORT

For Calendar year 2007 or most recent fiscal year

### Administrative Information (Please enter all the information requested below - type or print legibly)

Facility Name: Davis Waste-To-Energy Facility

Facility Mailing Address: P. O. Box 900

(Number & Street, Box and/or Route)

City: Layton Zip Code: 84041

County: Davis

#### Owner

Name: Wasatch Integrated Waste Management District Phone No.: (801) 614-5600

Mailing Address: \_\_\_\_\_

(Number & Street, Box and/or Route)

City: Layton State: UT Zip Code: 84041-0900

Contact's Name: Nathan Rich Title: Executive Director

Contact's Mailing Address: P.O. Box 900

Phone No.: (801) 614-5601 Contact's Email Address: nathanr@wiwmd.org

#### Operator (Complete this section only if the operator is not an employee of the Owner shown above)

Name: \_\_\_\_\_ Phone No.: (\_\_\_\_\_) \_\_\_\_\_

Mailing Address: \_\_\_\_\_

(Number & Street, Box and/or Route)

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact's Name: \_\_\_\_\_ Title: \_\_\_\_\_

Contact's Mailing Address: \_\_\_\_\_

Phone No.: (\_\_\_\_\_) \_\_\_\_\_ Contact's Email Address: \_\_\_\_\_

### Facility Type and Status

Large Incinerator ☐  
Capacity greater than ten tons per day

Small Incinerator ☒  
Capacity less than ten tons per day but greater  
than 250 pounds per week

Permit Not Required ☐  
Capacity Less than 250 pounds per week

☒ Currently in Operation

☐ Closed - Date: \_\_\_\_\_  
(The "Closed - Date" is the date that all waste and ash were removed from the site)

### Waste Incinerated

Total tons received at facility for incineration: 123,240

Waste Type	Waste Origin		Total	Measurement	
	In-State	Out-of-State		Tons	Cubic Yards
Municipal	<u>119,256</u>	<u>0</u>	<u>119,256</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Industrial	<u>3,981</u>	<u>0</u>	<u>3,981</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup>C/D waste includes all waste going to a Class IV or VI landfill

**Ash Disposal**Tons of ash disposed: 35,264Facility at which ash was disposed: Davis Landfill**Recycling**Tons Recycled: 55

or

(Should not be included in the tons disposed above also excludes waste diverted to compost. Compost should be reported on separate form.)

Cubic Yards Recycled: \_\_\_\_\_

**Fee Paid to the Utah Department of environmental Quality**Disposal Fee Required to be paid to State Yes ☒ No ☐

Fee Paid	Municipal	\$ _____	C/D	\$ _____
	Industrial	\$ _____	Annual	\$ <u>14,700</u>

**Financial Assurance**Current Closure Cost Estimate: \$84,486Current Post-Closure Cost Estimate: \$0.00Current Financial Assurance Mechanism: Trust Fund/Government Test

(ie. Bond, Trust Fund, Corporate or government Test etc.)

Financial Assurance Mechanism Holder: Utah State Treasurer, PTIF # 6579

(ie. Name of Bond Company, Bank etc.. If PTIF Account give account number)

Current Amount or Balance in Mechanism: \$4,449,613.15

**Financial Assurance:** Each facility must recalculate the cost of closure to account for inflation and design changes each year. The inflation factor can be found on the Division web page. Facilities that are using a trust account should include a copy of the most recent account statement.

**Note** Facilities using "Local Government Financial Test" or the "Corporate Financial Test" must provide the information required in R315-309-8(4) or R315-309-9(3) each year.

**Other Required Reports**

**Training Report:** A report of all training programs or procedures completed by facility personnel during the year.

Signature: \_\_\_\_\_

Date: 2-29-08

Signature should be by an executive officer, general partner, proprietor, elected official, or a duly authorized representative. A duly authorized representative must meet the requirements of the solid waste rules (UAC R315-310-2(4)(d)).

Print name: Nathan RichTitle: Executive Director

## **Wasatch Integrated Waste Management District 2007 Plant Training Report**

Wasatch Integrated Waste Management District Plant personnel completed the following training during 2007.

### **NEW HIRE TRAINING**

Each new plant employee completed the following training before being assigned to any task at the plant including:

- MTU Computerized Safety / Hazard Communication Program
- New Hire Orientation: safety equipment requirements, emergency gathering points, plant specific hazards, hazardous materials program
- Safety Manual

Each employee also received task specific training before being assigned to any new task at the plant.

### **PERIODIC SAFETY MEETINGS**

Periodic meetings were held either on a daily basis or periodically between scheduled monthly safety meetings for the purpose of discussing pertinent and timely safety issues at the plant. Upon completion of training, a signature from all employees was required regarding understanding presented material.

### **MONTHLY SAFETY MEETINGS**

Monthly safety meetings were held to discuss, in detail, OSHA applicable, heavy equipment operation, site specific issues, and Solid Waste Association of North America (SWANA) applicable training/industry standards. All employees attended and participated in practical application exercises, and exhibited understanding regarding information presented.

## **ADDITIONAL TRAINING**

January	Respirator Annual Training (OSHA); 40 hour HAZWOPER Certification; New Hire Orientation; 1 <sup>st</sup> Aid/CPR/AED Re-certification;
February	Confine Space Annual Training (OSHA) – “Size-fit” 14” x 1.5,’ 24” x 24,” 3.5’ x 4.5’ openings – used SKED rescue pt mover through opening w/ pt aboard; 8 hr HAZWOPER Re-certification; 1 <sup>st</sup> Aid/CPR/AED Re-certification
March	Lockout/Tagout (OSHA) When Things Go Wrong – man down scenario; Facility Elementary School Tours; HAZMAT DRILL (Semi-truck fuel spill); HAZMAT DRILL – Decontamination
April	Forklift (Classroom, Fuel System, Driving Practical Exam) (OSHA); Forklift (Practical); Facility Elementary School Tours
May	Overhead Crane Safety
June	Scaffolding, Lifts, Air Monitoring Basic Safety – included how to assist donning a SCBA – Pre-2007 Plant Shut Down; Power Wash Annual Re-certification; Contractor Safety Orientation
July	Contractor Safety Orientation; Plant Shut Down
August	1 <sup>st</sup> Aid/CPR/AED Re-certification
September	Blood/Air Borne Pathogen (OSHA); New Hire Orientation; Sliding Boom Lift Basic Safety Orientation
October	Scissor Lift Basic Safety Orientation; Fire Systems: Fire Extinguisher Operation (OHSA)
November	HAZCOM Annual Refresher (OSHA) – Operations of Air Monitor/MSDS for Hydrochloric Acid and Quick Lime; New Hire Orientation
December:	Hearing Protection (OSHA); SWANA based Waste Screening Training; 8 hr HAZWOPER Re-certification

Certification requirements for managers included credit hours continuously earned by attending previously cited classes, in addition to other applicable conferences, and seminars.

# WASATCH

**INTEGRATED**  
waste management district

November 2, 2007

Mr. Dennis Downs, Director  
Utah Division of Solid and Hazardous Waste  
288 North 1460 West  
Salt Lake City, Utah 84114-4880  
Attention: Rob Powers, Environmental Scientist

Re: Financial Assurance as of June 30, 2007 for the Davis Landfill and Energy Recovery Facility.

Dear Mr. Downs:

This letter is provided to update the financial assurance sufficient to assure adequate closure and post-closure care of the Davis Class I Landfill and Energy Recovery Facility operated by Wasatch Integrated Waste Management District (The District) as of June 30, 2007. Closure and post-closure costs as of June 30, 2007 have been updated with current costs estimates.

As required under Utah Administrative Code (UAC) R315-309 the District estimates total closure and post-closure costs for the entire Davis Landfill and Energy Recovery Facility as follows:

Closure and Post Closure Costs as of:	June 30, 2006	June 30, 2007
---------------------------------------	---------------	---------------

**Landfill**

Unlined Cell Closure Costs	Closed	Closed
Stage A Closure Costs	\$2,755,274	Closed
Stage B Closure Costs	\$2,264,109	\$3,635,738
Stage C Closure Costs	<u>\$3,212,822</u>	<u>\$4,550,447</u>
Landfill Closure Costs	\$8,232,205	\$8,186,185
Landfill Post-Closure Costs	<u>\$2,358,813</u>	<u>\$2,122,560</u>
Total Landfill Closure and Post-Closure Costs	\$10,591,018	\$10,308,745

**Energy Recovery Facility**

Total Energy Recovery Facility Closure Costs	<u>\$82,025</u>	<u>\$84,486</u>
Total Closure and Post-Closure Costs (Landfill & Facility)	<u>\$10,673,043</u>	<u>\$10,393,231</u>

**Landfill Capacity**

<b><u>(Cubic Yards)</u></b>	<b><u>Total</u></b>	<b><u>Used</u></b>	<b><u>%Used</u></b>	<b><u>Remaining</u></b>
Unlined Cell Capacity	2,463,782	2,463,782	100%	0
Lined Cells Capacity	<u>5,217,850</u>	<u>1,452,824</u>	28%	<u>3,765,026</u>
Total Landfill Capacity	<u>7,681,632</u>	<u>3,916,606</u>	51%	<u>3,765,026</u>

### Energy Recovery Facility Estimated Life

	<u>Costs</u>	<u>Accumulated Depreciation</u>	<u>Percent Used</u>
Energy Recovery Facility (Building, Boilers, Emission Eq.)	\$45,647,220	\$34,272,141	75%

### Closure and Post-Closure Liability

	<u>June 30, 2007 Total Costs</u>	<u>% Used</u>	<u>June 30, 2007 Total Liability</u>
Landfill Closure	\$8,186,185	28%	\$2,292,132
Landfill Post-Closure	<u>\$2,122,560</u>	51%	<u>\$1,082,506</u>
Total Landfill Closure & Post-Closure	<u>\$10,308,745</u>		<u>\$3,374,638</u>
Energy Recovery Facility Closure	<u>\$84,486</u>	75%	<u>\$63,365</u>
Total Closure & Post-Closure	<u>\$10,393,231</u>		<u>\$3,438,003</u>

### Financial Assurance General Requirements

For the financial assurance (UAC) R315-309-2(3) (a) states:

The closure cost estimate shall be based on the most expensive cost to close the largest area of the disposal facility ever requiring a final cover at any one time during the active life in accordance with the closure plan...

The District in accordance with (UAC) R315-309-2(3) estimates closure cost for the Energy Recovery Facility and the Davis Landfill's largest area ever requiring a final cover at any one time during the active life in accordance to the closure plan to be:

<b>Largest Area Closure Costs:</b>	<b>June 30, 2007</b>
<b>Landfill Largest Area Closure Costs</b>	
Stage A Closure Costs	Closed
Stage B Closure Costs	\$3,635,738
Stage C Closure Costs	\$4,550,447
Post-Closure Costs	<u>\$2,122,560</u>
Landfill Subtotal	\$10,308,745
<b>Energy Recovery Facility Closure Costs</b>	<u>\$84,486</u>
<b>Total Largest Area Closure and Post-Closure Current Costs</b>	<b>\$10,393,231</b>

The District estimates are provided in current dollars and based on the costs for a third party contractor(s) to perform the work in accordance with the final closure plan.

### **Financial Assurance Mechanisms**

The District, in accordance with (UAC) R315-309-3(4), intends to provide financial assurance for the period ending June 30, 2007 by a combination of mechanisms that together meet the \$10,393,231 requirements of subsection (UAC) R315-309-1(1). The financial assurance mechanisms chosen by the District are:

#### **(UAC) R315-309-4 Trust Fund**

The District has established an escrow account with the Utah State Treasurer invested in the Utah Public Treasurers' Investment Fund which has been accepted by the Utah Division of Solid and Hazardous Waste meeting the requirements of (UAC) R315-309-4. The balance as of June 30, 2007 is \$4,332,906.

#### **(UAC) R315-309-8 Local Government Financial Test**

The District intends to provide the remaining required balance of \$6,060,325 for closure and post-closure financial assurance through the Local Government Financial Test.

#### **The Local Government Test requires:**

- **(UAC) R315-309-8(2)(a)**  
The District had no bonds outstanding as of June 30, 2007.
- **(UAC) R315-309-8(2)(c)**  
The District's financial statements are prepared in conformity with Generally Accepted Accounting Principles for governments. Crane, Christensen & Ambrose an independent certified public accounting firm has audited the June 30, 2007 Financial Statements.
- **(UAC) R315-309-8(2)(d)**  
The District has placed a reference to the closure and post-closure costs in each audited financial report since 1994. The District current fiscal year comprehensive annual financial report as of June 30, 2007 also contains a reference to closure and post-closure care costs. All subsequent comprehensive annual financial reports during the time in which closure and post-closure care costs are assured through the financial test will include a reference to the closure and post-closure care costs assured through the financial test. The reference to the closure and post closure care cost include:
  - (i) the nature and source of the closure and post-closure care requirements
  - (ii) the reported liability at the balance sheet date
  - (iii) the estimated total closure and post-closure care costs remaining to be recognized
  - (iv) the percentage of landfill capacity used to date
  - (v) the estimated landfill life in years
- **(UAC) R315-309-8(6)(a)**  
"If the local government does not assure other environmental obligations through a financial test it may assure closure, post-closure, and corrective action costs that equal up to 43% of the local government's total annual revenue."

The cost of closure and post-closure care of the Davis Landfill and Energy Recovery Facility are the only current costs that the District is assuring by the Local Government Financial Test. In accordance with (UAC) R315-309-2(3) the District estimates the current cost to be covered by the Local Government Financial Test is \$6,060,325.



As required by (UAC) R315-309-8(4)(a)(i)(ii) I certify that Wasatch Integrated Waste Management District currently exceeds the requirements of Subsections (UAC) R315-309-8(2) and (6) for closure and post-closure care costs of the Davis Landfill. Evidence for this statement is calculated as of fiscal year ended June 30, 2007:

Total revenue:	\$16,496,339
Less gain (Loss) on sale of assets: FY 2007:	<u>(367,170)</u>
Total annual revenue for fiscal year 2007:	\$16,129,169
43% of the local government's total annual revenue:	<u>43%</u>
Maximum allowable assurance by financial test:	\$6,935,543

Based on this calculation the District meets the requirements and can provide the \$6,060,325 through the Local Government Financial Test.

- (UAC)R315-309-8(4)(b)  
Wasatch Integrated Waste Management's audited financial statements audited by Crane Christensen & Ambrose for the fiscal year ending June 30, 2007 are attached to this letter.
- (UAC)R315-309-8(4)(c)  
A report to the District's Administrative Control Board from a independent certified public accountant stating the procedures performed and the findings relative to the requirements of Subsections UACR315-309-8(2)(c) and UACR315-309-8(3)(c) and (d) is attached to this letter.
- (UAC)R315-309-8(2)(d)  
The District will include a reference to the closure and post-closure care costs assured through the financial test into the next comprehensive annual financial report and in every subsequent comprehensive annual report during the time in which closure and post-closure costs are assured through the financial test.

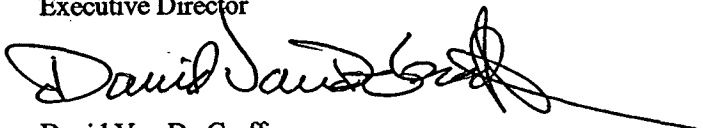
If you have any questions or require any additional information please feel free to contact us at 801-614-5600.

Sincerely,

Wasatch Integrated Waste Management District



Nathan Rich, P.E.  
Executive Director



David Van De Graff  
Controller

Cc: Steve Crane

**WASATCH INTEGRATED WASTE MANAGEMENT DISTRICT**

**Report on Application of Agreed-Upon Procedures**

**November 7, 2007**



Steven F. Crane, CPA  
Kent R. Christensen, CPA  
Jeffrey L. Ambrose, CPA  
Chuck Palmer, CPA

Independent Accountant's Report On  
Application of Agreed-Upon Procedures

President and Board of Directors  
Wasatch Integrated Waste Management District  
P.O. Box 900  
Layton, UT 84041-0900

We have performed the procedures enumerated below which were agreed to by you solely to assist the District in meeting its closure and post-closure care financial assurance requirements. This engagement to apply agreed-upon procedures was performed in accordance with standards established by the American Institute of Certified Public Accountants. The sufficiency of the procedures is solely the responsibility of the specified users of the report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

**PROCEDURES:**

1. Compare the data and statements contained in the letter dated November 2, 2007 from the District's controller David VanDeGraff with the data and statements presented in the audited financial statements for the year ended June 30, 2007 to determine that the data and statements in the letter were taken directly, or were appropriately derived, from the financial statements.
2. Confirm that the financial statements were prepared in conformity with Generally Accepted Accounting Principles for Governments.
3. Confirm that the District did not operate at a deficit equal to 5% or more of its total annual revenue for the past two years.
4. Confirm that the financial statements were audited by the independent certified public accountant.
5. Confirm that the District's audited financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion from the auditor.

**FINDINGS:**

1. We confirmed that the data and statements contained in the letter dated November 2, 2007 from the District's controller were taken directly or were appropriately derived from the audited financial statements for the year ended June 30, 2007.
2. We confirmed that the financial statements were prepared in conformity with Generally Accepted Accounting Principles for Governments.
3. We confirmed that the District did not operate at a deficit equal to 5% or more of its total annual revenue for the past two years.
4. We confirmed that the financial statements were audited by the independent certified public accountant.
5. We confirmed that the District's audited financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion from the auditor.

We were not engaged to and did not perform an audit, the objective of which would be the expression of an opinion on the specified elements, accounts or items. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that could have been reported to you.

This report is intended solely for the use of the specified users listed above and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes.

*Eran Christensen & Ambrose*

November 7, 2007

**Volumes in Place as of June 30, 2007**

	Landfill										Waste Processed at Plant (ton/yr)	District Wide			
Year	Yearly MSW Placement at Landfill (ton/yr) (cy/yr)		MSW Cumulative (ton) (cy)		Yearly Ash Placement (ton/yr) (cy/yr)		Ash Cumulative (ton) (cy)		Yearly MSW & Ash (ton/yr) (cy/yr)			MSW & Ash Cumulative (ton) (cy)		Waste Disposed (ton/yr)	Percentage Increase in Tonnage
1953	885	1,476	885	1,476			0	0	885	1,476					
1954	1,771	2,951	2,656	4,427			0	0	1,771	2,951					
1955	2,656	4,427	5,312	8,854			0	0	2,656	4,427					
1956	3,542	5,903	8,854	14,757			0	0	3,542	5,903					
1957	4,427	7,378	13,281	22,135			0	0	4,427	7,378					
1958	5,312	8,854	18,594	30,989			0	0	5,312	8,854					
1959	6,198	10,330	24,791	41,319			0	0	6,198	10,330					
1960	7,083	11,805	31,875	53,125			0	0	7,083	11,805					
1961	7,969	13,281	39,843	66,406			0	0	7,969	13,281					
1962	8,854	14,757	48,698	81,163			0	0	8,854	14,757					
1963	9,740	16,233	58,437	97,395			0	0	9,740	16,233					
1964	10,625	17,708	69,062	115,103			0	0	10,625	17,708					
1965	11,510	19,184	80,572	134,287			0	0	11,510	19,184					
1966	12,396	20,660	92,968	154,947			0	0	12,396	20,660					
1967	13,281	22,135	106,249	177,082			0	0	13,281	22,135					
1968	14,167	23,611	120,416	200,693			0	0	14,167	23,611					
1969	15,052	25,087	135,468	225,780			0	0	15,052	25,087					
1970	15,937	26,562	151,405	252,342			0	0	15,937	26,562					
1971	16,823	28,038	168,228	280,380			0	0	16,823	28,038					
1972	17,708	29,514	185,936	309,894			0	0	17,708	29,514					
1973	18,594	30,989	204,530	340,883			0	0	18,594	30,989					
1974	19,479	32,465	224,009	373,348			0	0	19,479	32,465					
1975	20,364	33,941	244,373	407,289			0	0	20,364	33,941					
1976	21,250	35,416	265,623	442,705			0	0	21,250	35,416					
1977	22,135	36,892	287,758	479,597			0	0	22,135	36,892					
1978	23,021	38,368	310,779	517,965			0	0	23,021	38,368					
1979	23,906	39,843	334,685	557,808			0	0	23,906	39,843					
1980	24,791	41,319	359,476	599,127			0	0	24,791	41,319					
1981	25,677	42,795	385,153	641,922			0	0	25,677	42,795					
1982	26,562	44,271	411,716	686,193			0	0	26,562	44,271					
1983	27,448	45,746	439,163	731,939			0	0	27,448	45,746					
1984	28,333	47,222	467,496	779,161			0	0	28,333	47,222					
1985	29,219	48,698	496,715	827,858			0	0	29,219	48,698					
1986	30,104	50,173	526,819	878,032			0	0	30,104	50,173					
1987	30,989	51,649	557,808	929,681	1,742	1,161	1,742	1,161	32,731	52,810	559,550	930,842	6,698		
1988	31,875	53,125	589,683	982,805	27,147	18,098	28,889	19,259	59,022	71,223	618,572	1,002,064	103,616		
1989	32,760	54,600	622,443	1,037,405	30,609	20,406	59,498	39,665	63,369	75,006	681,941	1,077,071	111,549		
1990	33,646	56,076	656,089	1,093,481	30,214	20,143	89,712	59,808	63,860	76,219	745,801	1,153,289	109,623		
1991	34,531	57,552	690,620	1,151,033	29,674	19,783	119,386	79,591	64,205	77,334	810,006	1,230,624	109,022		
1992	35,416	59,027	726,036	1,210,060	31,683	21,122	151,069	100,713	67,099	80,149	877,105	1,310,773	104,825		
1993	36,302	60,503	762,338	1,270,563	24,077	16,051	175,146	116,764	60,379	76,554	937,484	1,387,327	101,615		
1994	48,425	80,708	810,763	1,351,272	32,483	21,655	207,629	138,419	80,908	102,364	1,018,392	1,601,651	125,463	173,888	
1995	72,761	121,268	883,524	1,472,540	33,938	22,625	241,567	161,045	106,699	143,894	1,125,091	1,704,014	126,652	199,413	
1996	67,610	112,683	951,134	1,585,223	31,398	20,932	272,965	181,977	99,008	133,615	1,224,099	1,847,908	122,602	190,212	
1997	97,247	138,924	1,048,381	1,724,148	32,969	21,979	305,934	203,956	130,216	160,904	1,354,315	1,928,104	117,650	214,897	
1998	115,732	165,331	1,164,113	1,889,479	34,653	23,102	340,587	227,058	150,385	188,433	1,504,700	2,116,537	128,808	244,540	
1999	136,407	194,867	1,300,520	2,084,346	34,615	23,077	375,202	250,135	171,022	217,944	1,675,722	2,334,481	125,722	262,129	
2,000	122,377	174,824	1,422,897	2,259,170	34,944	23,296	410,146	273,431	157,321	198,120	1,833,043	2,532,601	130,046	252,423	
2,001	148,999	212,856	1,571,896	2,472,026	30,458	20,305	440,604	293,736	179,457	233,161	2,012,500	2,765,762	113,587	262,586	
2,002	123,775	176,821	1,695,671	2,648,848	32,439	21,626	473,043	315,362	156,214	198,447	2,168,714	2,964,210	120,146	243,921	
2,003	120,117	171,596	1,815,788	2,820,443	33,174	22,116	506,217	337,478	153,291	193,712	2,322,005	3,157,921	118,690	238,807	
2,004	125,256	178,937	1,941,044	2,999,380	36,337	24,225	542,554	361,703	161,593	203,162	2,483,598	3,361,083	124,101	249,357	
2,005	135,059	192,941	2,076,103	3,192,322	33,408	22,272	575,962	383,975	168,467	215,213	2,652,065	3,576,297	116,252	251,311	
2,006	137,723	196,747	2,213,826	3,389,068	37,475	24,983	613,437	408,958	175,197	221,730	2,827,262	3,798,026	127,415	265,138	
June '07	74,258	106,083	2,288,084	3,495,152	18,746	12,497	632,182	421,455	93,004	118,580	2,920,266	3,916,606	63,993	138,251	-48

**Total Landfill:**  
7,681,632 = Permitted Design Capacity of Landfill  
3,916,606 = Waste in Landfill at June 30, 2007  
3,765,026 = Volume Remaining Total Site  
51% = Percentage of Total Landfill Used

**Unlined Cell:**  
2,463,782 = Permitted Design Capacity of Unlined Cell (Closed)  
0 = Volume Remaining  
100% = Percentage of Unlined Landfill Used

**Lined Cell:**  
5,217,850 = Permitted Design Capacity of Lined Cell  
1,452,824 = Waste in Lined Cell at June 30, 2006  
3,765,026 = Volume Remaining in Lined Cell at June 30, 2006  
28% = Percentage of Lined Cell Used at June 30, 2006

**Notes:**

Design Landfill Capacity = 7,681,632 cubic yards of waste per 2002 permit

Aerial survey data indicates that as of June 1996 the landfill had received 1,781,100 cubic yards of waste. To estimate the total received through December 1996, 1,847,908 cubic yards, it was assumed that half the waste received during 1996 was received after the June survey.

The amount of waste received during 1994 and later is documented by scale house records.

Waste placement rates for the years prior to scale records was estimated by distributing the remaining volume, 1,270,563 cy, over the years 1953 through 1993 assuming an annual increase of 885 tons per year.

1200 lb/cy in place density 1952 through 1996

1400 lb/cy in place density thereafter

## LANDFILL POST-CLOSURE COSTS (30 YEARS)

### Section 1.0 - Engineering

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	Post-Closure Plan	NA			\$0
1.2	Annual Report (including results from gas, leachate, and ground water sampling - details of maintenance performed)	LS	\$5,000	30	\$150,000
a	Semiannual Site Inspections	LS	\$320	60	\$19,200
b	Plan Update	LS	\$200	30	\$6,000
	Engineering Subtotal				\$175,200

(1 day of time)

### Section 2.0 - Gas Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS	\$320	120	\$38,400
2.2	Sample Analysis	NA			\$0
2.3	Report (Part of Annual Report)				
	Gas Collection System - Sampling Subtotal				\$38,400

QUARTERLY SAMPLING (Documentation)  
(4 hours of time)

### Section 3.0 - Leachate Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS	\$80	60	\$4,800
2.2	Sample Analysis	NA	\$400	60	\$24,000
2.3	Report (Part of Annual Report)				
	Leachate Collection System - Sampling Subtotal				\$28,800

SEMI-ANNUAL SAMPLING (Documentation)  
(2 field hours, minimal analytical work)

### Section 4.0 - Ground Water Monitoring System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
3.1	Sample Collection	LS	\$640	60	\$38,400
3.2	Sample Analysis	LS	\$6,000	120	\$720,000
3.3	Report (Part of Annual Report)				
	Ground Water Collection System - Sampling Subtotal				\$758,400

QUARTERLY SAMPLING (2 days/event)

### Section 5.0 - Facility Operations and Maintenance

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
4.1	Cover				
a	Soil Replacement	LS	\$1,000	30	\$30,000
b	Vegetation/Reseeding	LS	\$500	30	\$15,000
4.2	Storm Water Protection Structures				
a	Ditch and Culvert Maintenance	LS	\$500	30	\$15,000
b	Berm and Basin Maintenance	LS	\$500	30	\$15,000
4.3	Gas Collection System				
a	System Operation	NA	\$240	3120	\$748,800
b	System Repair	LS	\$2,000	30	\$60,000
4.4	Leachate Collection System				
a	System Operation	NA		30	\$0
b	System Repair	NA		30	\$0
4.5	Ground Water Monitoring System				
a	System Operation	NA		30	\$0
b	System Repair	LS	\$500	30	\$15,000
4.6	Site Security				
a	Lighting, signs, etc...	LS	\$500	30	\$15,000
b	Fencing and Gates	LS	\$500	30	\$15,000
4.7	Miscellaneous				
a					
b					
	Facility Operations and Maintenance Subtotal				\$928,800

(4 hours @ \$60/hr every week)

Total \$1,929,600  
 10% Contingency \$192,960  
 Total Post-Closure Cost \$2,122,560